



Gulf of Mexico Harmful Algal Bloom Bulletin

7 November 2005

National Ocean Service

National Environmental Satellite, Data, and Information Service

Last bulletin: November 3, 2005

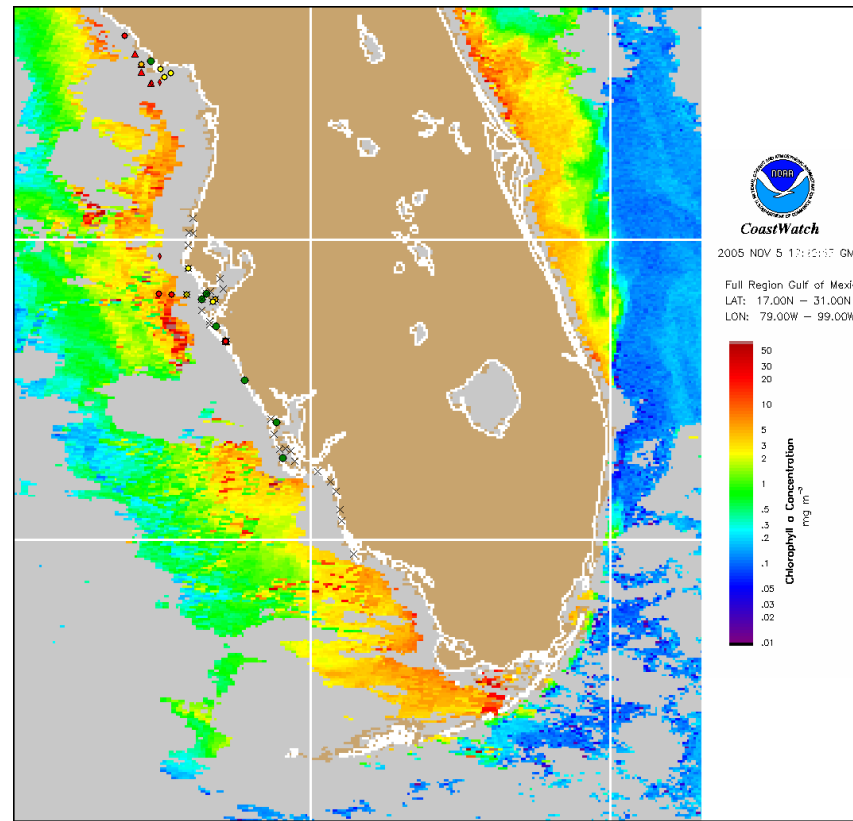
Conditions: Harmful algal blooms have been identified in patches in Dixie and Levy Counties, from Southern Pinellas County to Sarasota County. A second bloom has been identified in patches in Okaloosa, Bay, and Franklin Counties. Very low impacts are possible for Sarasota County through Thursday. No impacts are expected for Pinellas and Manatee. In Okaloosa and Franklin Counties, very low impacts are possible today and Thursday, low impacts are possible tomorrow, moderate impacts are possible Wednesday. In Bay County, very low impacts are possible today, tomorrow, and Thursday, with possible low impacts on Wednesday. Dead fish have been reported over the past few days in Okaloosa County. Dead fish smell, while unpleasant, doesn't produce the same respiratory irritation as harmful algal blooms.

Analysis: The bloom lingers along the southwest Florida coast. Imagery from 11/4 (not displayed) indicates increased chlorophyll concentration, which coincides with recent upwelling-favorable winds. Winds will continue to favor upwelling, offshore transport, and westward expansion through Thursday. This may cause bloom intensification, but will also minimize coastal impacts this week. A high-chlorophyll feature persists alongshore from west of Tampa Bay to west of Charlotte Harbor. Imagery indicates concentrations $>20 \mu\text{g/L}$ at several locations: $27^{\circ}42'N$, $82^{\circ}56'W$, near the northern extent of this feature, 22 miles (35 km) from Bradenton Beach; $27^{\circ}6'N$, $82^{\circ}41'$, 16 miles (25 km) from Venice; and at $26^{\circ}33'N$, $82^{\circ}28'W$, near the feature's southern extent, southwest of Sanibel. Imagery from 11/5 indicates a chlorophyll concentration of $>8 \mu\text{g/L}$ at $25^{\circ}20'N$, $81^{\circ}18'W$, in a high-chlorophyll feature west of Cape Sable.

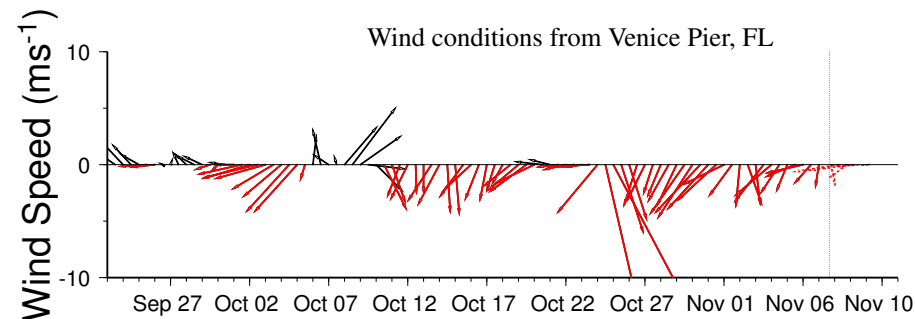
Bronder, Fenstermacher

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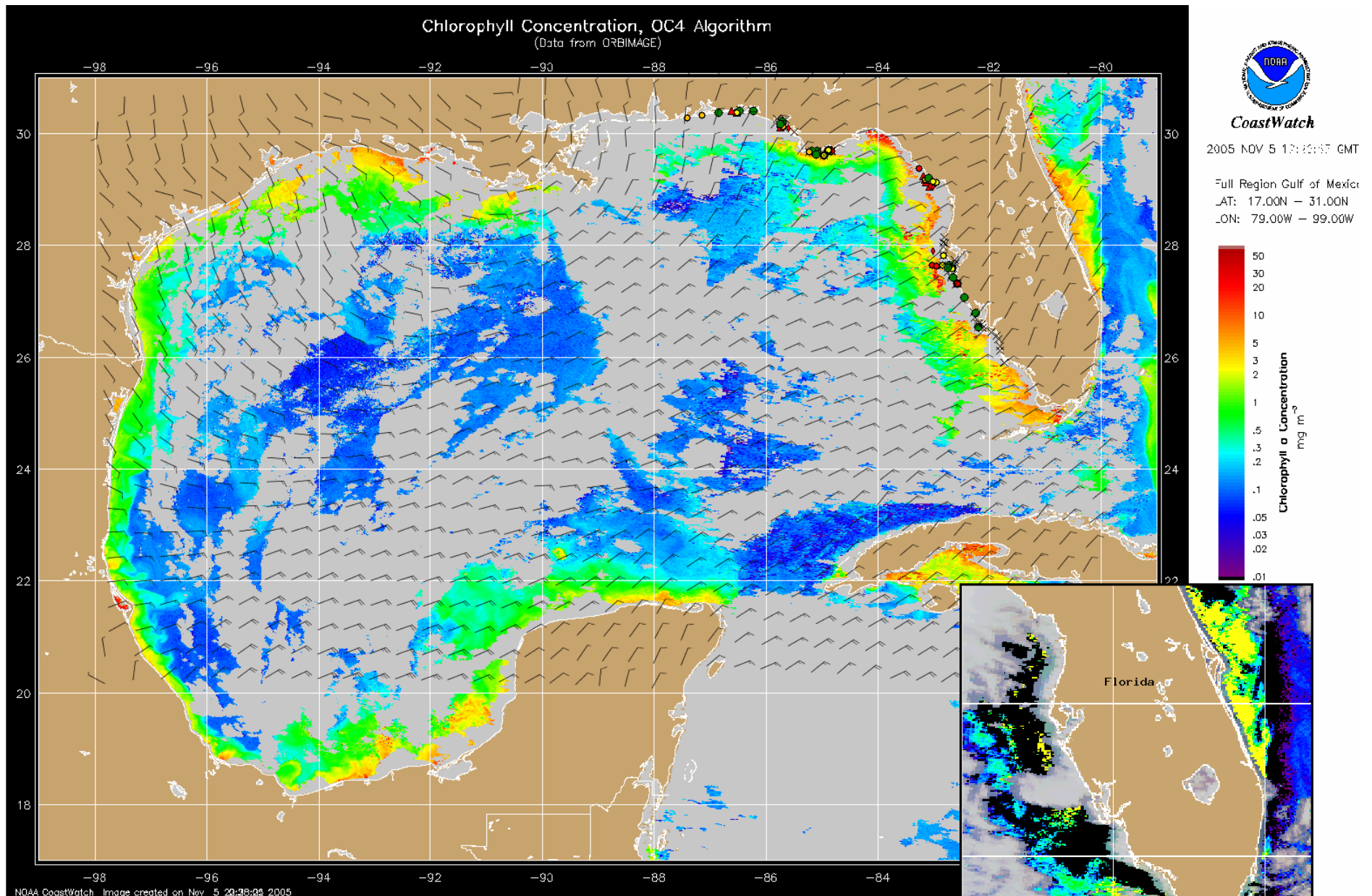


Chlorophyll concentration from satellite with HAB areas shown by red polygon(s). Cell concentration sampling data from October 31, 2005 shown as red squares (high), red triangles (medium), red diamonds (low b), red circles (low a), orange circles (very low b), yellow circles (very low a), green circles (present), and black "X" (not present).



Wind speed and direction are averaged over 12 hours from measurements made on buoys. Length of line indicates speed; angle indicates direction. Red indicates that the wind direction favors upwelling near the coast. Values to the left of the dotted vertical line are measured values; values to the right are forecasts.

Winds will be northeast (10 kts, 5 m/s) today through Wednesday, variable and becoming north (15 kts, 8 m/s) Thursday.



Chlorophyll concentration from satellite and forecast winds for November 8, 2005 12Z with cell concentration sampling data from October 31, 2005 shown as red squares (high), red triangles (medium), red diamonds (low b), red circles (low a), orange circles (very low b), yellow circles (very low a), green circles (present), and black "X" (not present).

Blooms shown in red (see p. 1 analysis)